

Title (en)

METHOD FOR PRODUCING FLUORINE-CONTAINING POLYETHER CARBOXYLIC ACID AMIDE

Title (de)

VERFAHREN ZUR HERSTELLUNG VON FLUORHALTIGEM POLYETHERCARBOXYLSÄUREAMID

Title (fr)

PROCÉDÉ DE PRODUCTION D'UN AMIDE D'ACIDE POLYÉTHÉR CARBOXYLIQUE CONTENANT DU FLUOR

Publication

**EP 2423244 A1 20120229 (EN)**

Application

**EP 10767009 A 20100416**

Priority

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Abstract (en)

A fluorine-containing polyether carboxylic acid amide represented by the general formula:  $C_n F_{2n+1} O(C_3 F_6 O)_m R_f CONHAr$ , wherein  $R_f$  is a fluorocarbon group having 1 to 2 carbon atoms,  $Ar$  is a nitrogen-containing heterocyclic group,  $n$  is an integer of 1 to 3, and  $m$  is an integer of 10 to 30, is produced by reacting a fluorine-containing polyether carboxylic acid fluoride represented by the general formula:  $C_n F_{2n+1} O(C_3 F_6 O)_m R_f COF$ , wherein  $R_f$ ,  $n$ , and  $m$  are as defined above, with a nitrogen-containing heterocyclic amine compound represented by the general formula:  $ArNH_2$ , wherein  $Ar$  is as defined above; wherein the reaction is carried out while a reaction temperature is first increased to 80 to 100°C, and then increased at a temperature increase rate that produces a temperature difference of 3 to 5°C after 48 hours.

IPC 8 full level

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